

Notice of Allowability**Application No.**

10/665,989

Applicant(s)

ROSSMANITH ET AL.

Examiner

HIEU T. HOANG

Art Unit

2452

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/25/2009.
2. ☒ The allowed claim(s) is/are 1-3,7,12-15 and 18-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 03/03/2009.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Kenny S Lin/
Primary Examiner, Art Unit 2452

DETAILED ACTION

Claims 1-3, 7, 12-16, 18-22 are allowed.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Van Loy on 03/03/2009.

The claims have been amended as follows:

12. (Currently Amended) In a collaborative business application landscape, a method for integrated message exchange, comprising:

capturing configuration-specific collaboration descriptions of one or more applications installed in an exchange infrastructure, the capturing comprising accessing a description of an active system landscape and a configuration-specific business scenario that is consistent with the active system landscape from a system landscape directory, the capturing further comprising referencing an integration repository that comprises a plurality of design-time business scenarios, each of the ~~one or more~~ plurality of design-time business scenarios describing and configuring message-based interaction between two or more application components or enterprises based on

business process logic, routing rules, and executable mappings defined by the design-time business scenario, the configuration-specific business scenario being selected from the plurality of design-time business scenarios;

receiving a message from a sending application of the ~~two~~ one or more applications;

storing a copy of the message in a database;

storing a reference to the message in a persistence layer;

executing the business process logic defined in the configuration-specific business scenario on the message if the ~~at least one~~ sending application and/or ~~the~~ one or more receiving applications of the one or more applications require the business process logic defined in the configuration-specific business scenario;

evaluating routing rules defined in the configuration-specific business scenario to determine one or more required interfaces for the one or more receiving applications and also to determine whether the business logic defined in the configuration-specific business scenario needs to be applied to the message;

applying the executable mappings defined in the configuration-specific business scenario to determine one or more required transformations to the message that depend on the message content, the ~~at least one~~ sending application, and/or the one or more receiving applications; and

based on the message reference stored in the persistence layer, transporting the message to ~~at least one receiving application of the two or more applications~~ the one or more receiving applications.

13. (Currently Amended) The method in accordance with claim 12, wherein transporting the message includes resolving a physical address of the ~~at least one~~ or more receiving application ~~applications~~.

15. (Currently Amended) The method in accordance with claim 14, wherein transporting the message includes: accessing and grouping the messages associated with the accumulated message references; and transporting the grouped messages to the ~~at least one receiving application~~ one or more receiving applications.

18. (Currently Amended) The method in accordance with claim 12, wherein transporting the message to ~~at least one receiving application of the two or more applications~~ the one or more receiving applications comprises sending the message reference to a message transport layer for transporting the message to the ~~at least one receiving application~~ one or more receiving applications.

20. (Currently Amended) The system in accordance with claim 1, wherein the integration server is a dedicated server that applies ~~the~~ collaboration knowledge from the integration directory in a runtime collaboration environment.

21. (Currently Amended) An article comprising a machine-readable medium embodying instructions that when performed by one or more machines result in operations comprising:

capturing configuration-specific collaboration descriptions of one or more applications installed in an exchange infrastructure, the capturing comprising accessing a description of an active system landscape and a configuration-specific business scenario that is consistent with the active system landscape from a system landscape directory, the capturing further comprising referencing an integration repository that comprises a plurality of design-time business scenarios, each of the ~~one or more~~ plurality of design-time business scenarios describing and configuring message-based interaction between two or more application components or enterprises based on business process logic, routing rules, and executable mappings defined by the design-time business scenario, the configuration-specific business scenario being selected from the plurality of design-time business scenarios;

receiving a message from a sending application of the ~~two~~ one or more applications;

storing a copy of the message in a database;

storing a reference to the message in a persistence layer;

executing the business process logic defined in the configuration-specific business scenario on the message if the ~~at least one~~ sending application and/or the one or more receiving applications of the one or more applications require the business process logic defined in the configuration-specific business scenario;

evaluating routing rules defined in the configuration-specific business scenario to determine one or more required interfaces for the one or more receiving applications and also to determine whether the business logic defined in the configuration-specific business scenario needs to be applied to the message;

applying the executable mappings defined in the configuration-specific business scenario to determine one or more required transformations to the message that depend on the message content, the ~~at least one~~ sending application, and/or the one or more receiving applications; and

based on the message reference stored in the persistence layer, transporting the message to ~~at least one receiving application of the two or more applications~~ the one or more receiving applications.

22. (Currently Amended) A system as in claim 1, wherein the routing rules determine the one or more receiving application applications on a business level.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach the claimed invention, as follows.

For claims 1, 12 and 21, the prior art does not teach capturing an active system landscape and configuration-specific business scenario and referencing an integration repository of design-time business scenarios to determine which business logic, routing rules, and executable mappings are applicable to the captured active system

landscape. The prior art also does not teach evaluating the business logic and executable mappings done by a runtime engine to determine whether the business logic and executable mappings need to be applied to a business collaboration message, by referencing a persistence layer that stores the message.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is included in form PTO 892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hieu T. Hoang whose telephone number is 571-270-1253. The examiner can normally be reached on Monday-Thursday, 8 a.m.-5 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HH

/Kenny S Lin/

Primary Examiner, Art Unit 2452